| $C\Gamma$ | A | Ι | M | <u>s</u> |
|-----------|---|---|---|----------|
| | | | | |

2

1

[001] A method for operating a frequency converter 3 circuit comprising at least two outputs that are 4 respectively connected to a load, especially an 5 induction coil (I1, I2), wherein a first output 6 (I1) is operated at a first switching frequency 7 (f1) and a second output (I2) is simultaneously 8 operated at a second switching frequency (f2) that 9 is different from the first in such a way that 10 noise having a frequency (fS) generated by the 11 superposition of the first switching frequency 12 (f1) and the second switching frequency (f2) is 13 14 produced, characterised in that the converter circuit is operated in such a way that the 15 frequency (fS) of the noise is lower than a first 16 cut-off frequency (q1) and/or higher than a second 17 cut-off frequency (g2). 18

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20 [002] The method according to claim 1, characterised in 21 that the first switching frequency (f1) and/or the 22 second switching frequency (f2) is operated in 23 such a way that the frequency (fS) of the noise is 24 lower than the first cut-off frequency (g1) and/or 25 higher than the second cut-off frequency (g2).

26

27 [003] The method according to claim 1 or 2, 28 characterised in that an electrical power (P1, P2) 29 of at least one of the outputs (I1, I2) is 30 regulated by a relative switch-on time (D) and/or 31 the switching frequency (f1, f2).

32

33 [004] The method according to any one of claims 1 to 3, 34 characterised in that the first cut-off frequency 14

(q1) and/or the second cut-off frequency (q2) is 1 determined depending on a level (LS) of the noise. 2 3 The method according to any one of claims 1 to 3, 4 [005] characterised in that the first cut-off frequency 5 (g1) and/or the second cut-off frequency (g2) is 6 determined depending on a total electrical power 7 (P1, P2) of the outputs (I1, I2). 9 The method according to any one of claims 1 to 3, 10 [006] characterised in that the first cut-off frequency 11 (q1) is 2 kilohertz and/or the second cut-off 12 frequency (g2) is 14 kilohertz. 13